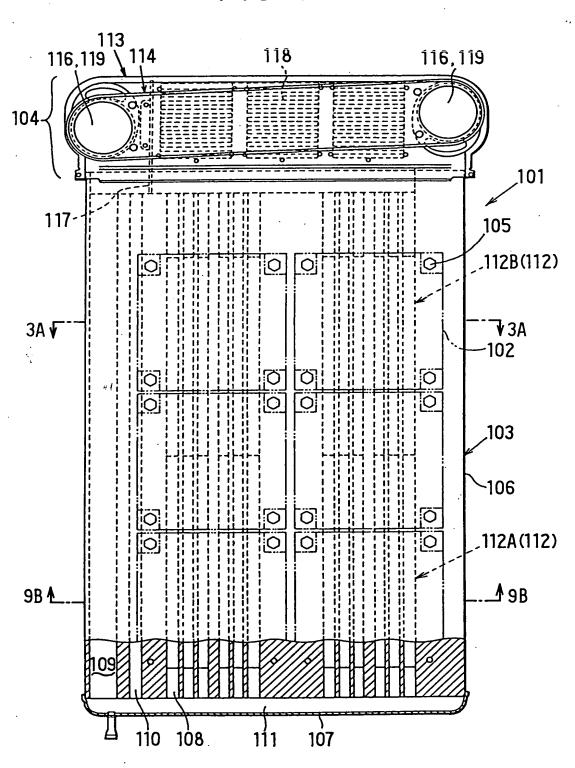
Atty. Ref. No.: 4041J0229DVA

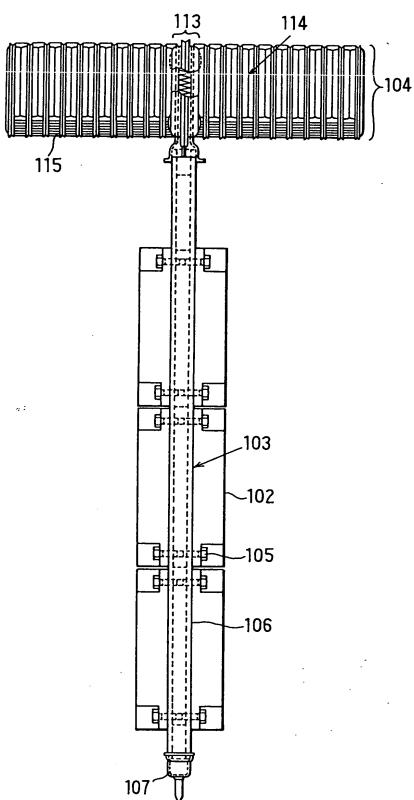
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FIG. I

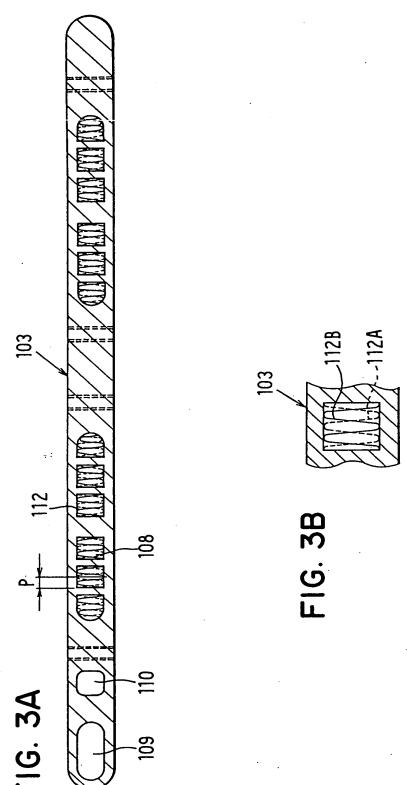


Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
National J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA

FIG. 2



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe
Amenael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
Michael J. Schmidt, Harness, Dickey & Pierce, P.

Atty. Ref. No.: 4041J0229DVA

FIG. 4

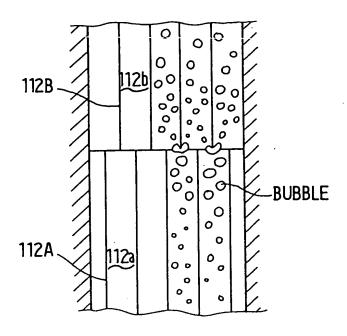
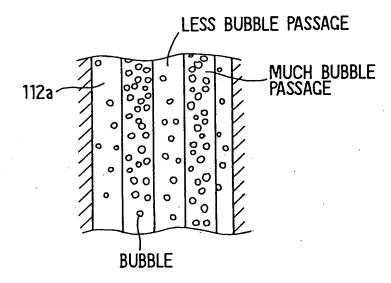
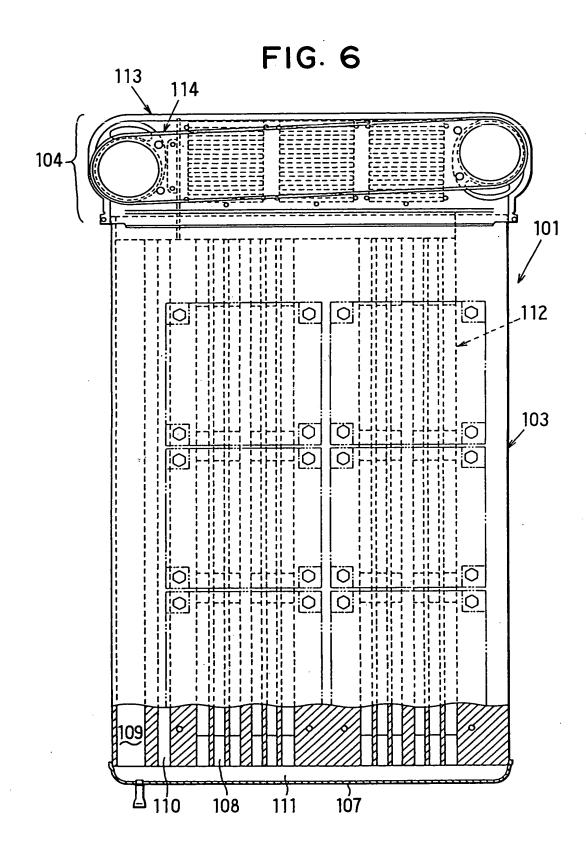


FIG. 5



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe
Manael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
Namael J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA

FIG. 7

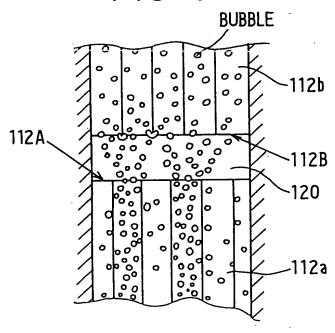
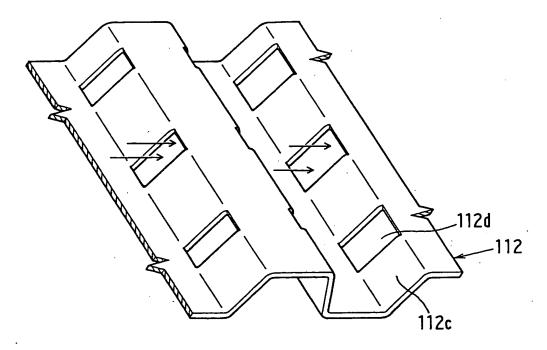
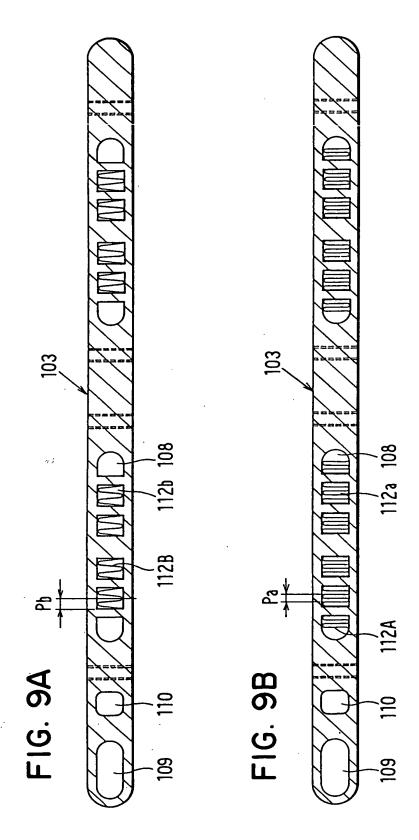


FIG. 8

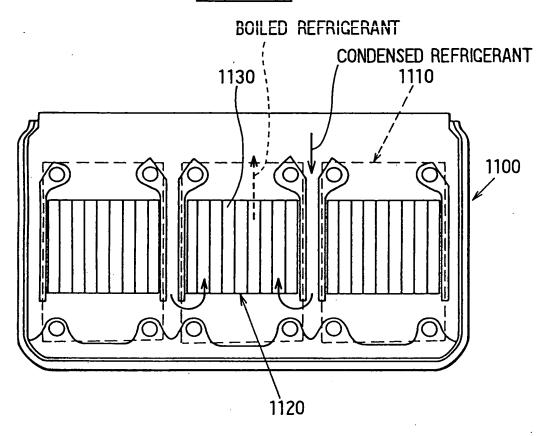


Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
Namael J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA



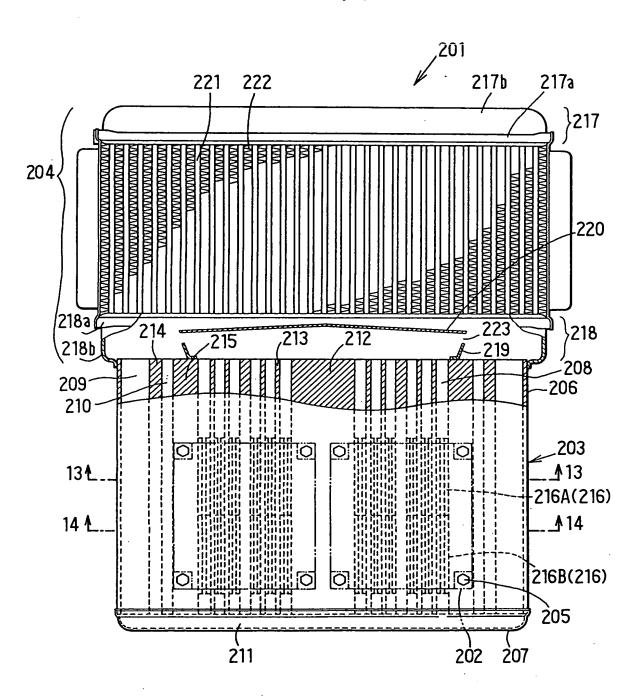
Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe
M. Atty. Ref. No.: 4041J0229DVA

FIG. 10 PRIOR ART



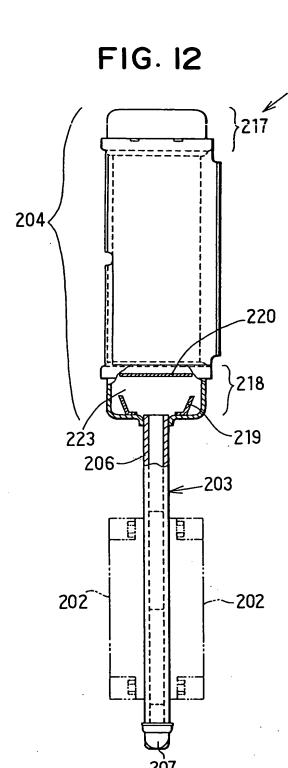
Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe
Manael J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA

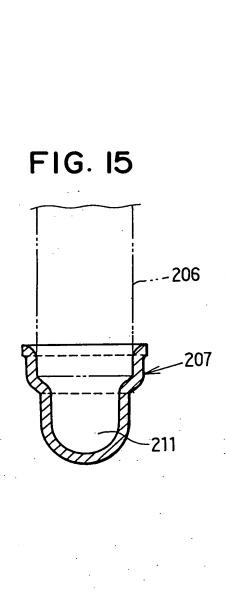
FIG. 11



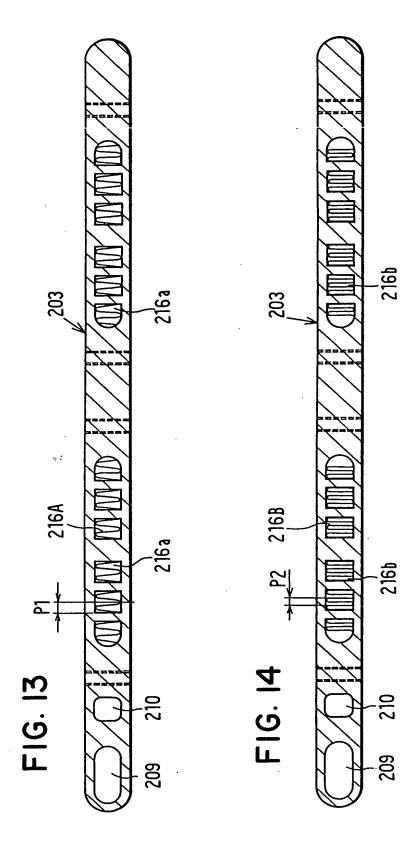
Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
Archael J. Schmidt, Harness, Dickey & Pierce,

Atty. Ref. No.: 4041J0229DVA





Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
Avael J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA

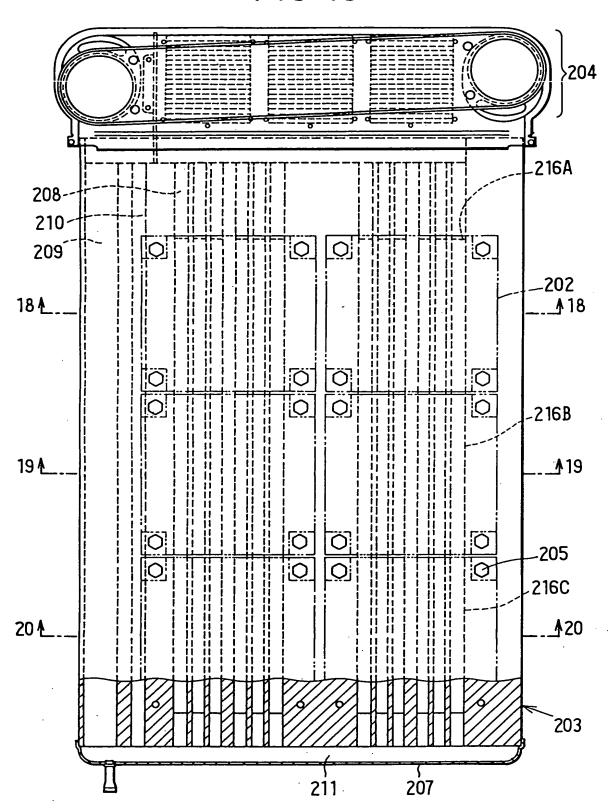


Inventor: Hiroyuki Osakabe Lael J. Schmidt, Harness, Dickey & Pierce,

Atty. Ref. No.: 4041J0229DVA

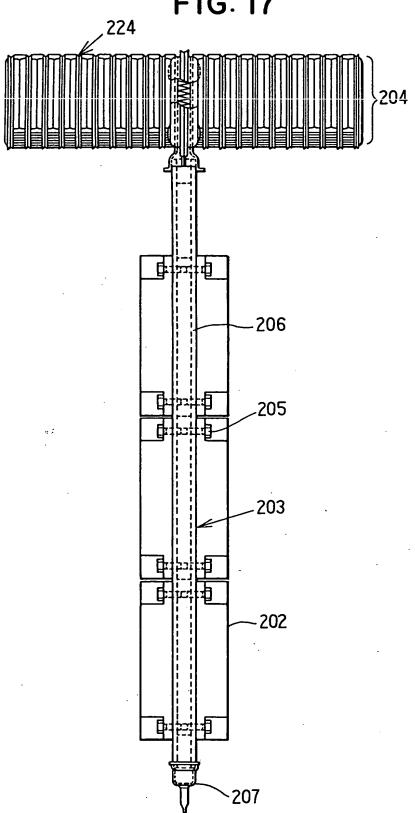
12/73

FIG. 16

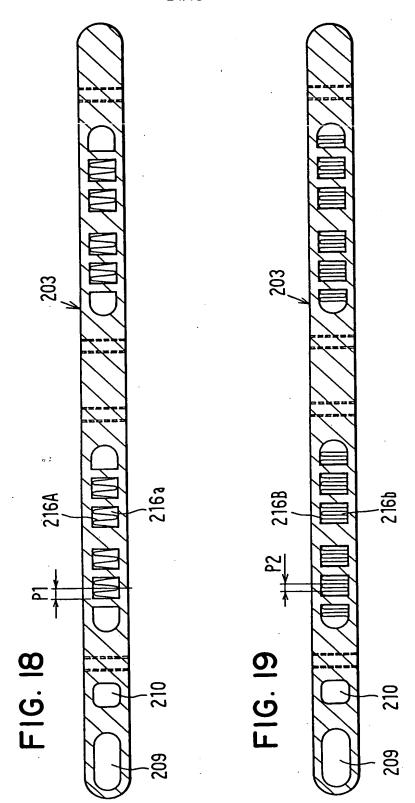


Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG. 17



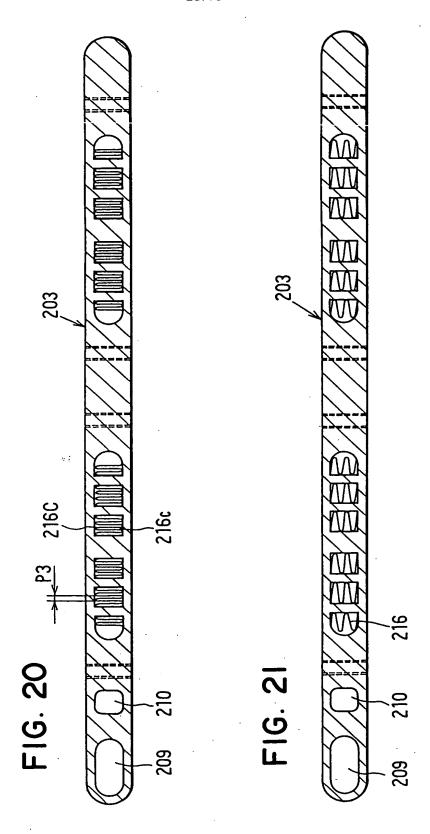
Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
ael J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe

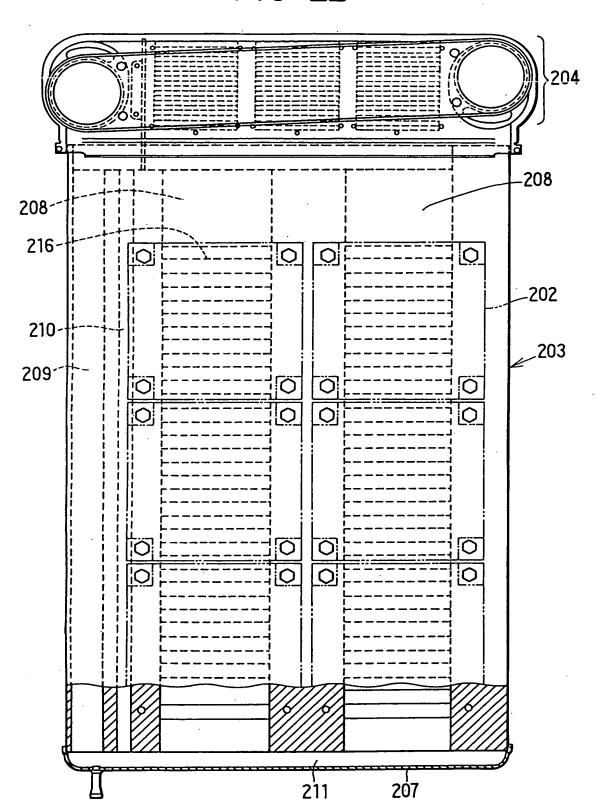
ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

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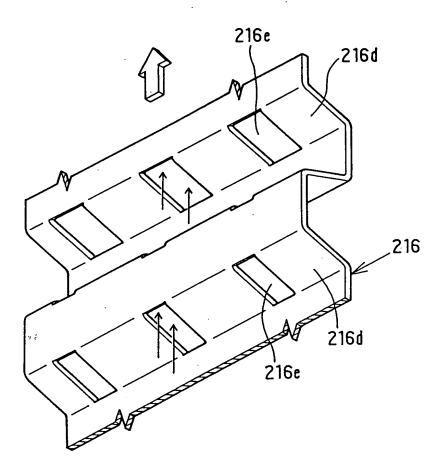
Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
ael J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA

FIG. 22



Inventor: Hiroyuki Osakabe lael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

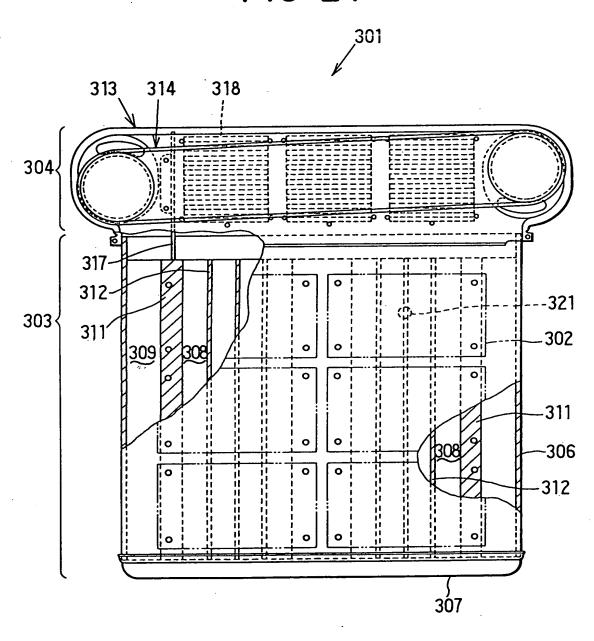
FIG. 23



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe

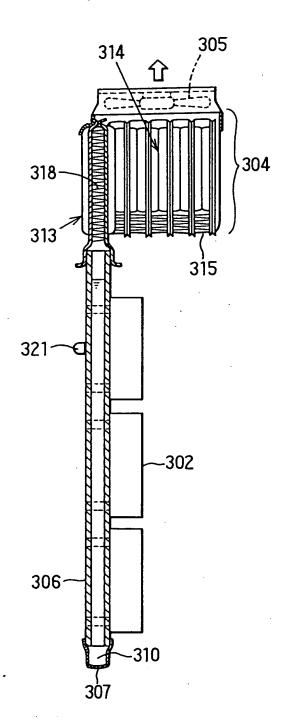
ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG. 24

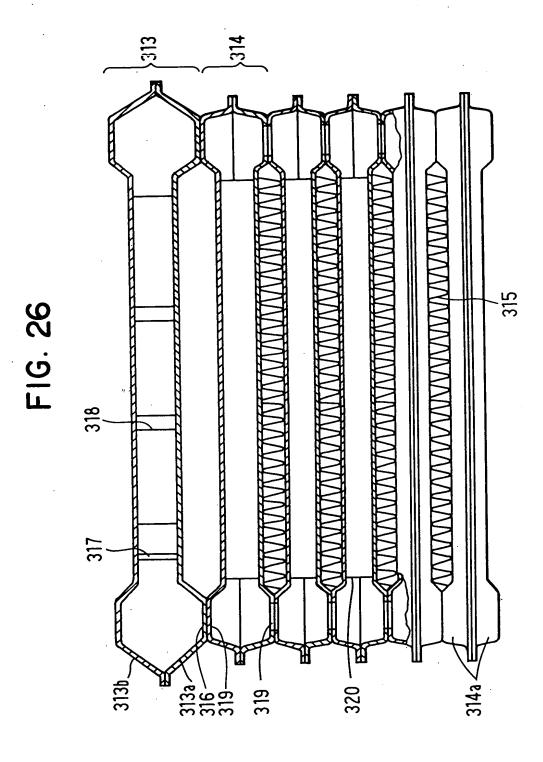


Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

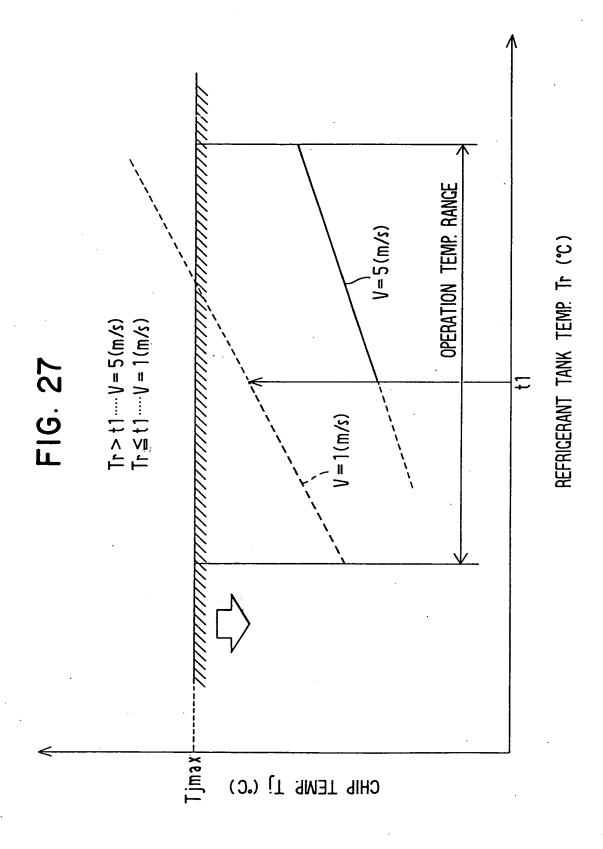
FIG. 25



Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

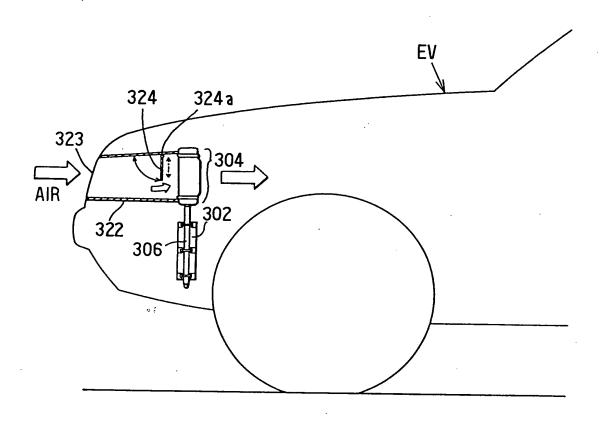


Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

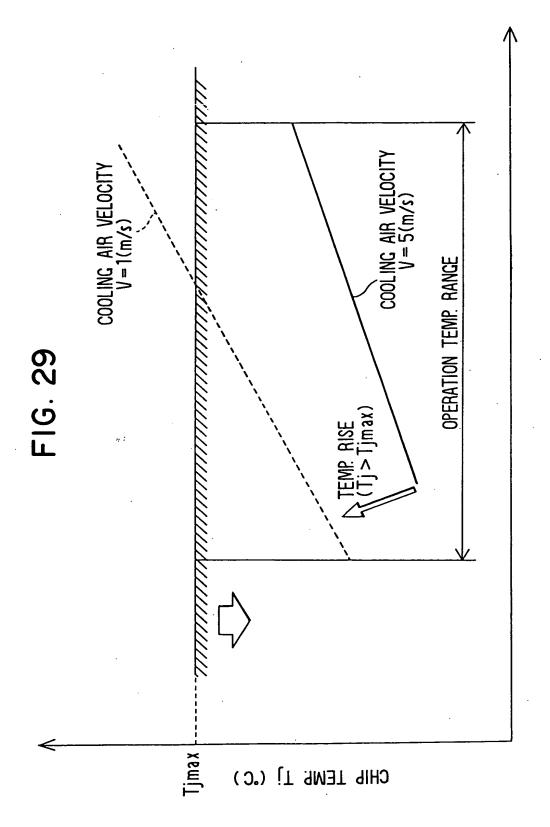


Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG. 28

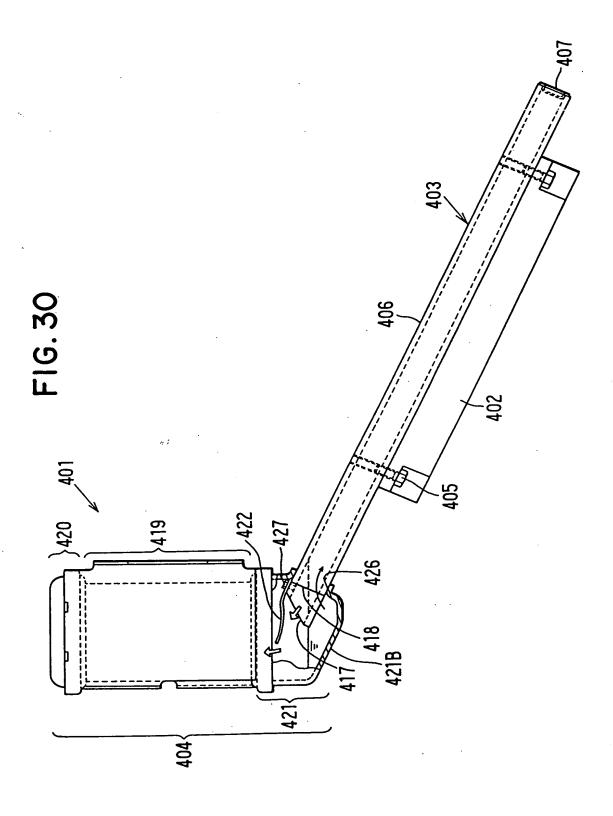


Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA



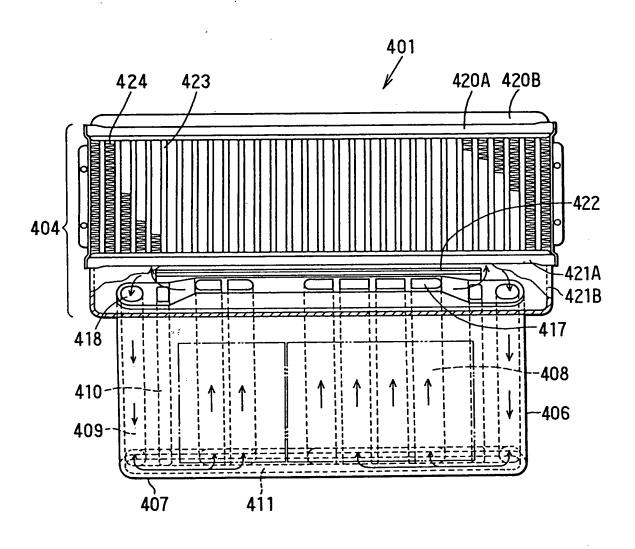
REFRIGERANT TANK TEMP Tr (°C)

Inventor: Hiroyuki Osakabe lael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA



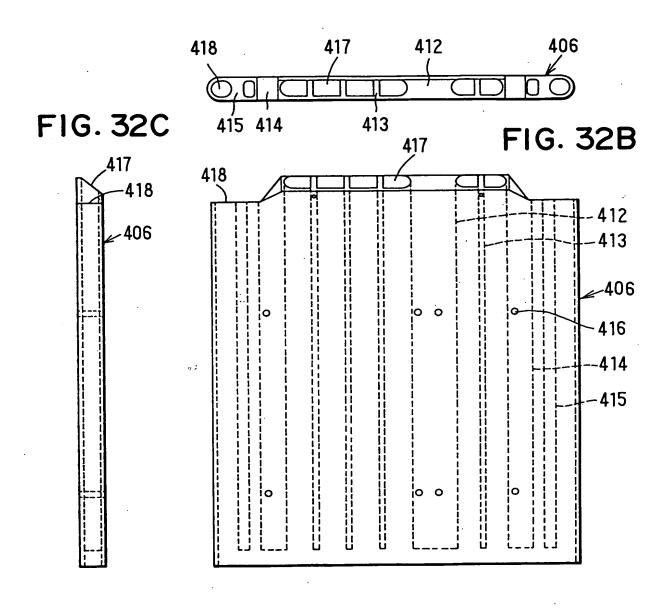
Inventor: Hiroyuki Osakabe
ael J. Schmidt, Harness, Dickey & Pierce,
Atty. Ref. No.: 4041J0229DVA

FIG. 31



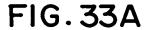
Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG. 32A



Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

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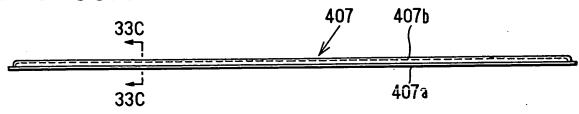
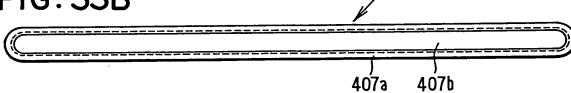


FIG. 33B



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FIG.33C

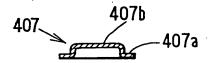
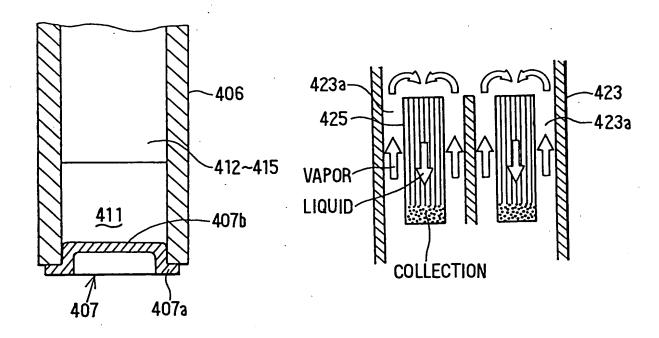
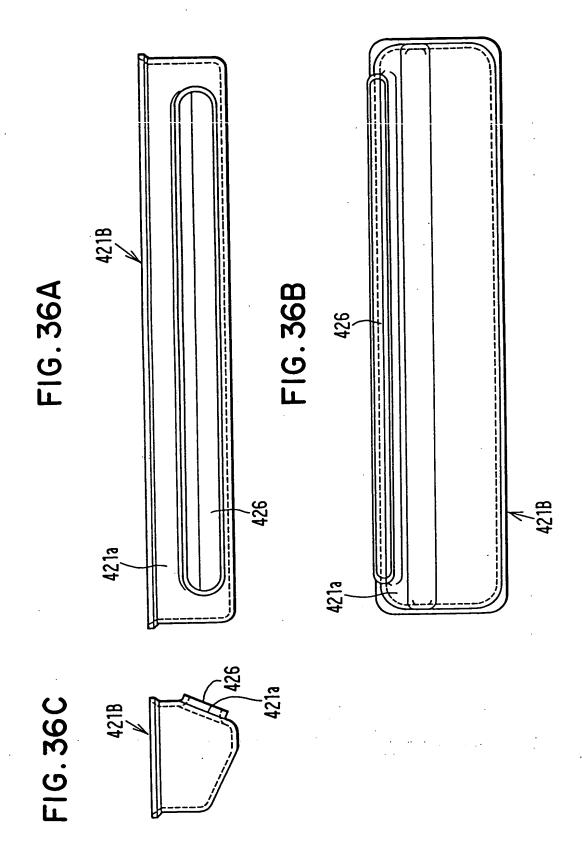


FIG. 34

FIG. 35



Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA



Atty. Ref. No.: 4041J0229DVA

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FIG. 37A

FIG. 37B

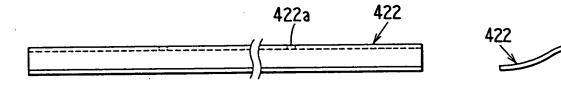
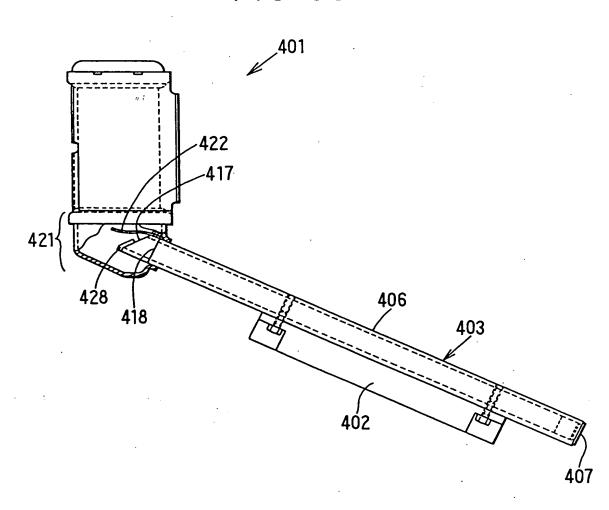
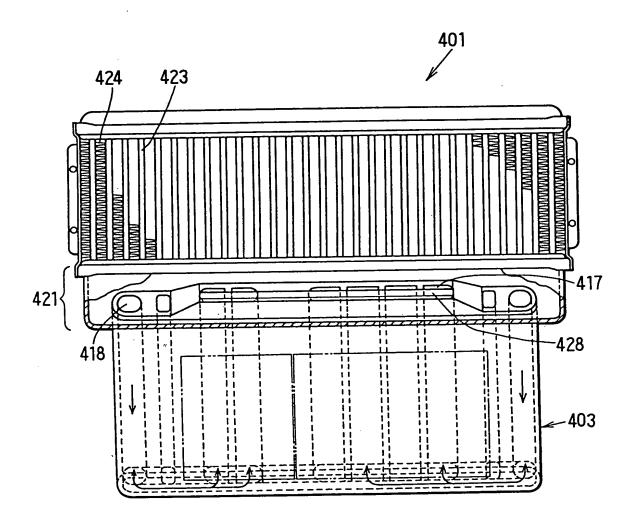


FIG. 38

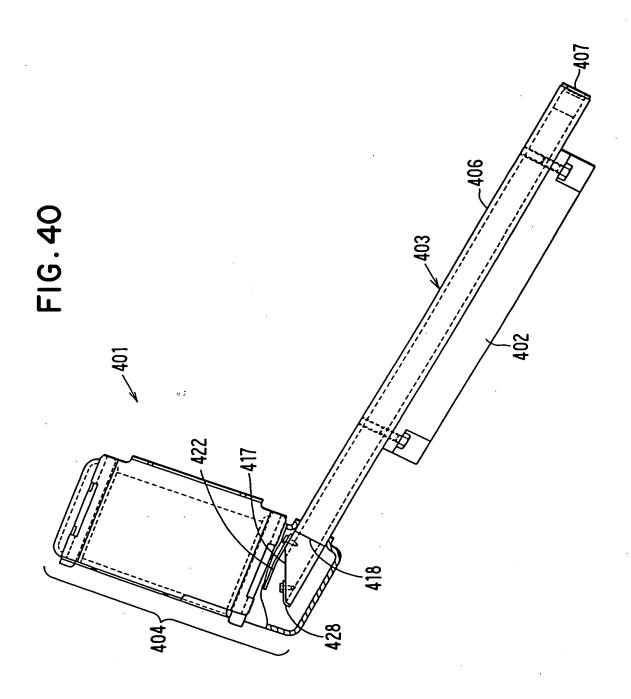


Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG.39

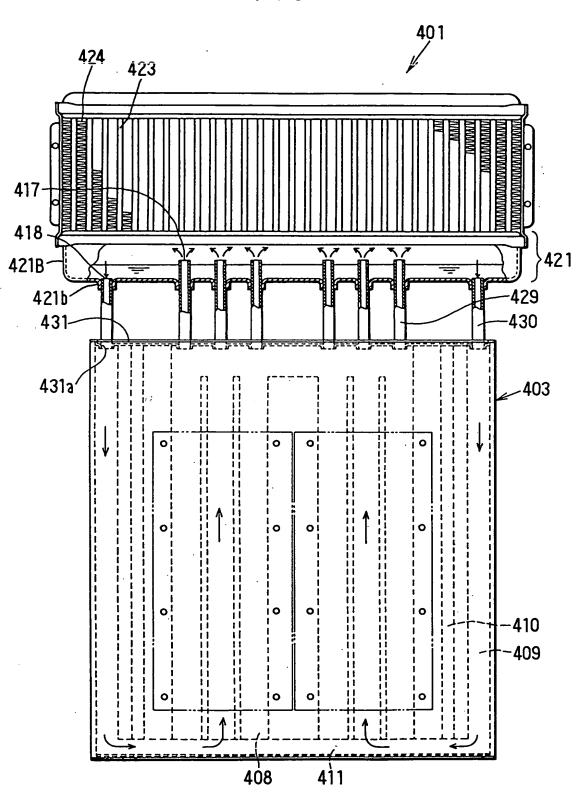


Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA



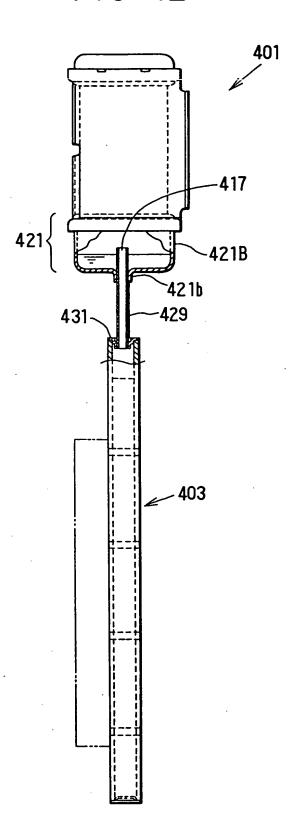
Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA

FIG. 41



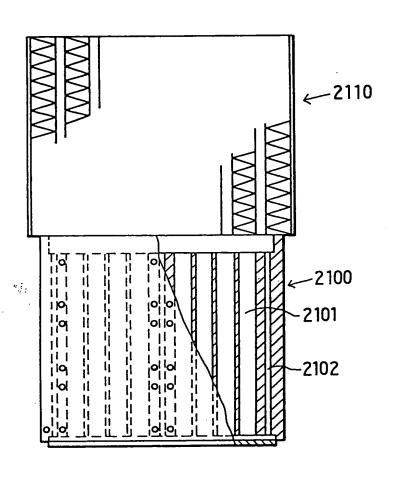
Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG.42



Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

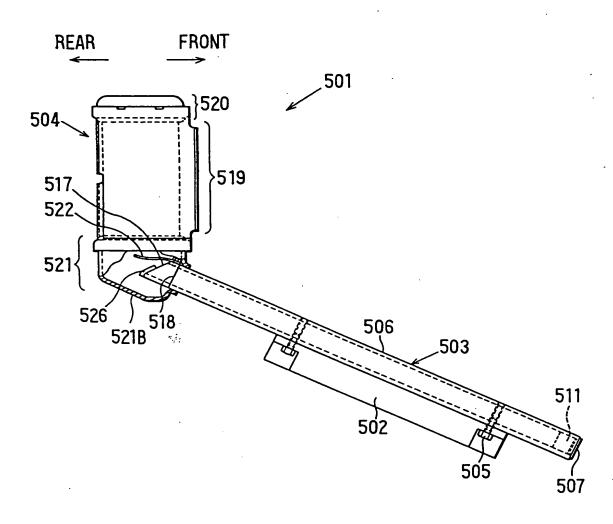
FIG. 43 PRIOR ART



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe

ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

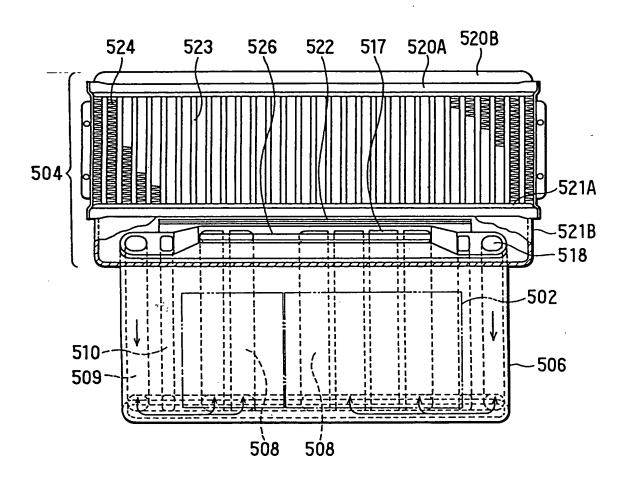
FIG.44



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe

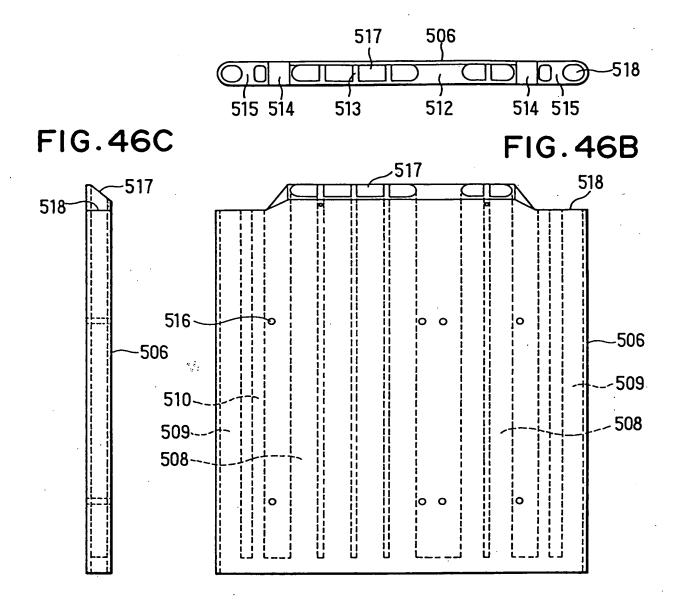
ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG. 45



Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG.46A



Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA

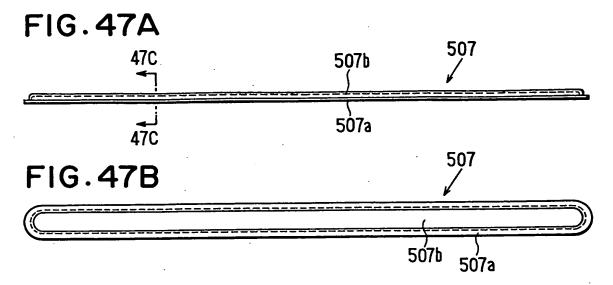


FIG. 47C

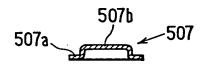


FIG. 48

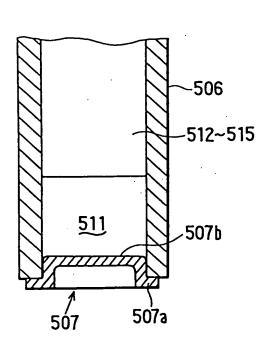


FIG. 50A

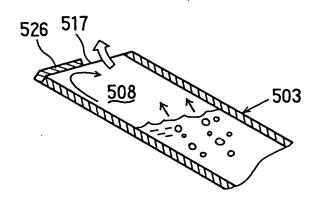
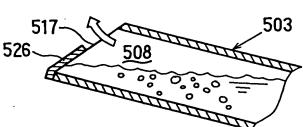
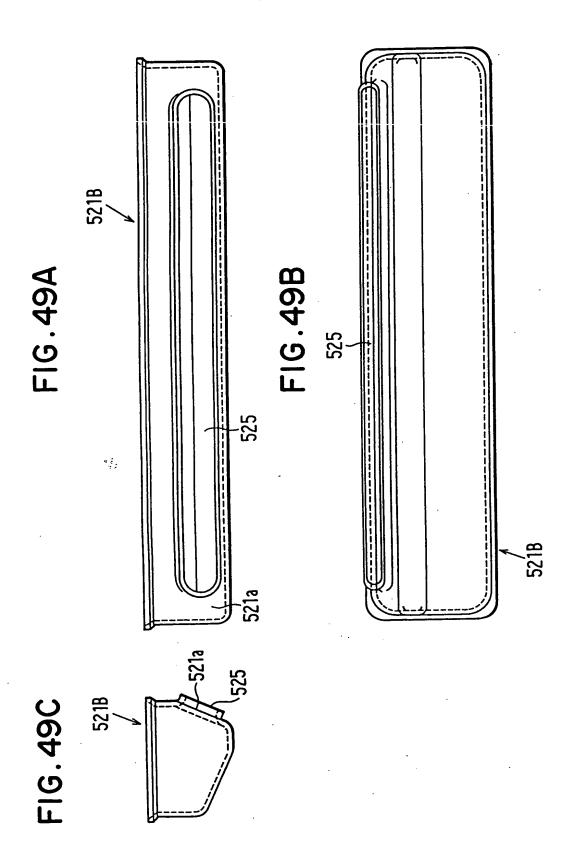


FIG.50B

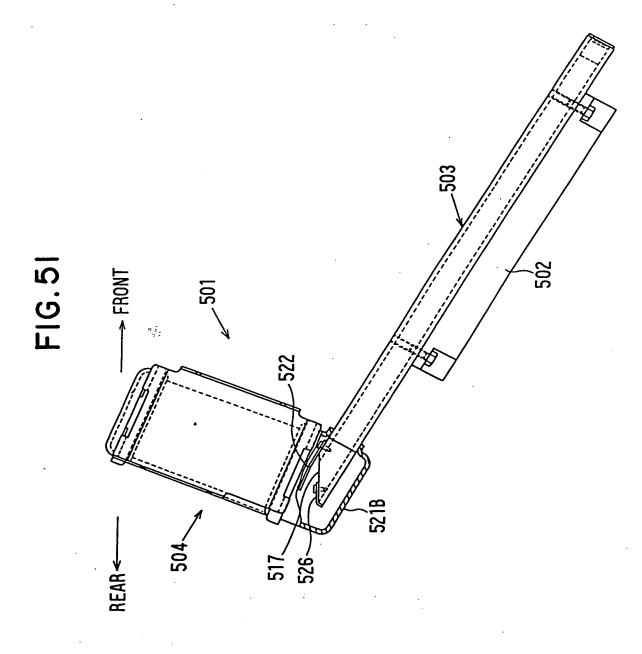


Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe

ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

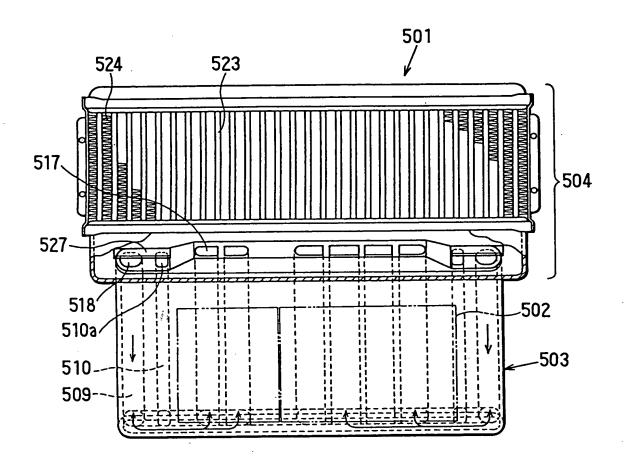


Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
hael J. Schmidt, Harness, Dickey & Pierce
Atty. Ref. No.: 4041J0229DVA

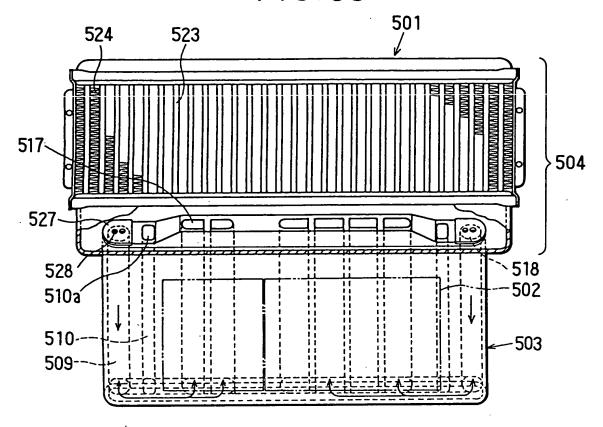
FIG.52

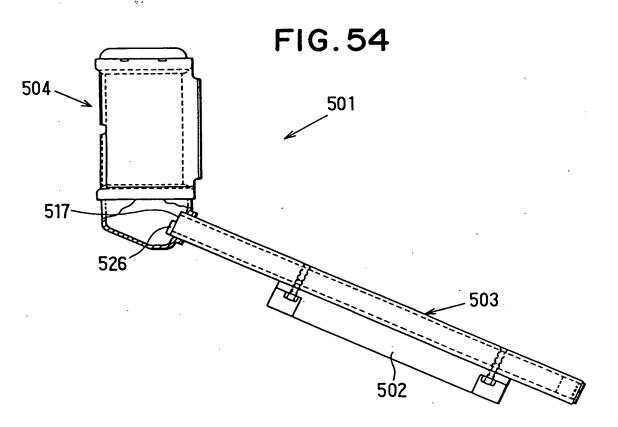


Inventor: Hiroyuki Osakabe nael J. Schmidt, Harness, Dickey & Pierce

Atty. Ref. No.: 4041J0229DVA

FIG.53





Inventor: Hiroyuki Osakabe
hael J. Schmidt, Harness, Dickey & Pierce
Atty. Ref. No.: 4041J0229DVA

FIG. 55

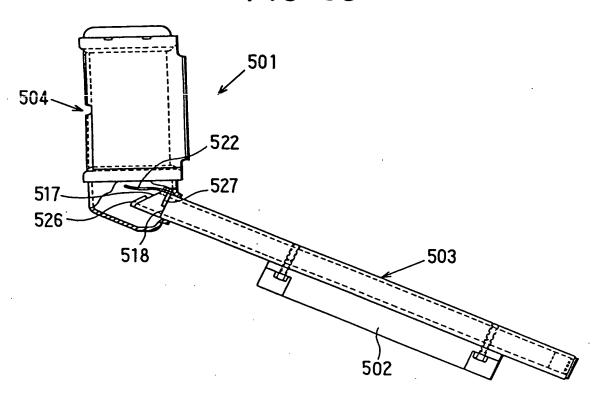
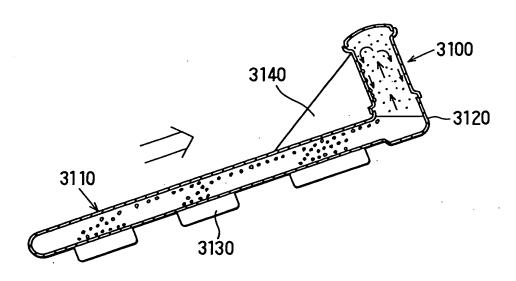
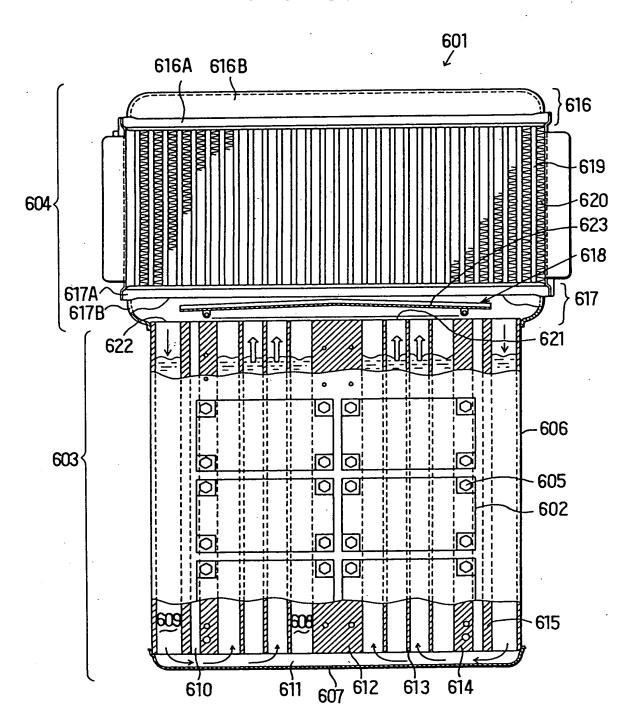


FIG. 56 PRIOR ART



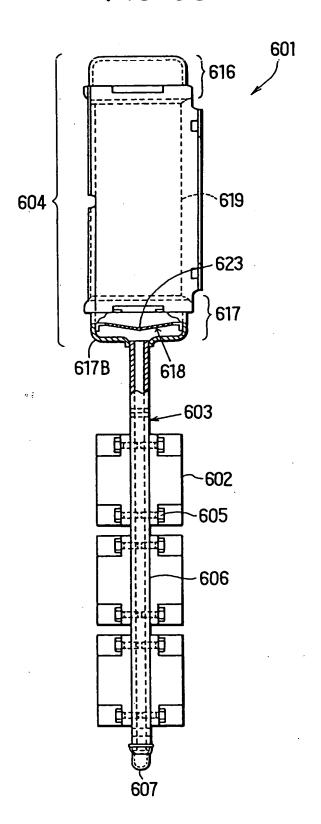
Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA

FIG. 57



Inventor: Hiroyuki Osakabe ael J. Schmidt, Harness, Dickey & Pierce, Atty. Ref. No.: 4041J0229DVA

FIG. 58



hael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA

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FIG. 59A

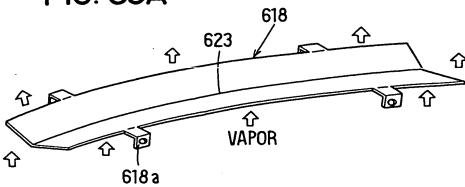


FIG. 59B

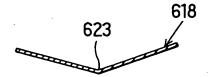


FIG. 60A

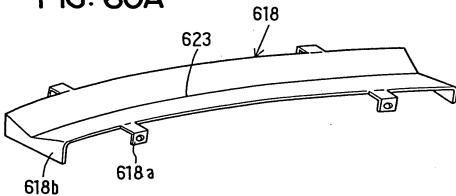
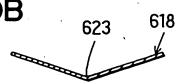


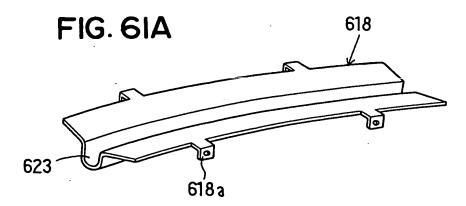
FIG. 60B

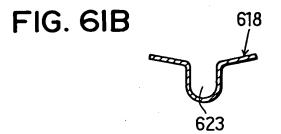


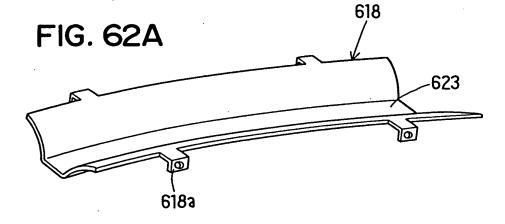
Inventor: Hiroyuki Osakabe

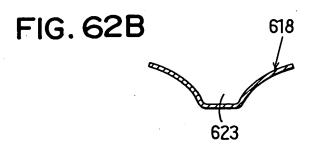
Atty. Ref. No.: 4041J0229DVA

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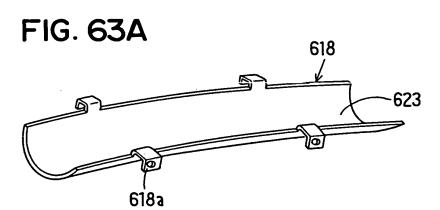


FIG. 63B



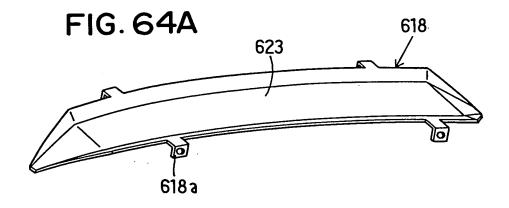


FIG. 64B 623 618

Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA

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FIG. 65A

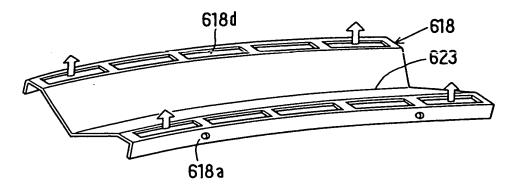


FIG. 65B

. .

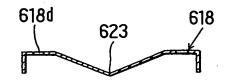
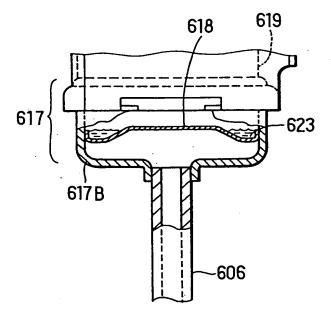


FIG. 66



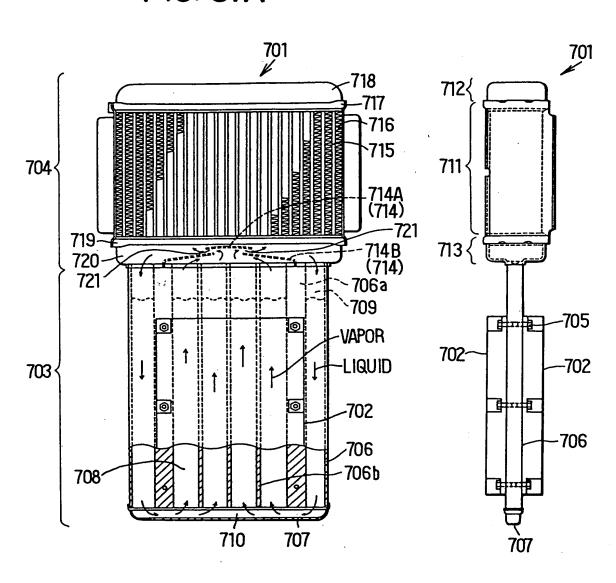
Inventor: Hiroyuki Osakabe

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FIG. 67A

FIG. 67B



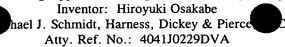


FIG. 68A

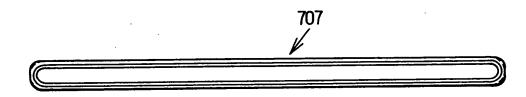


FIG. 68B

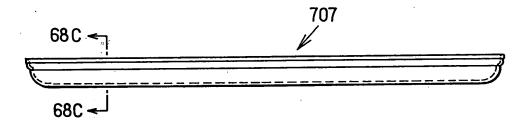
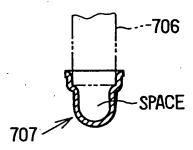
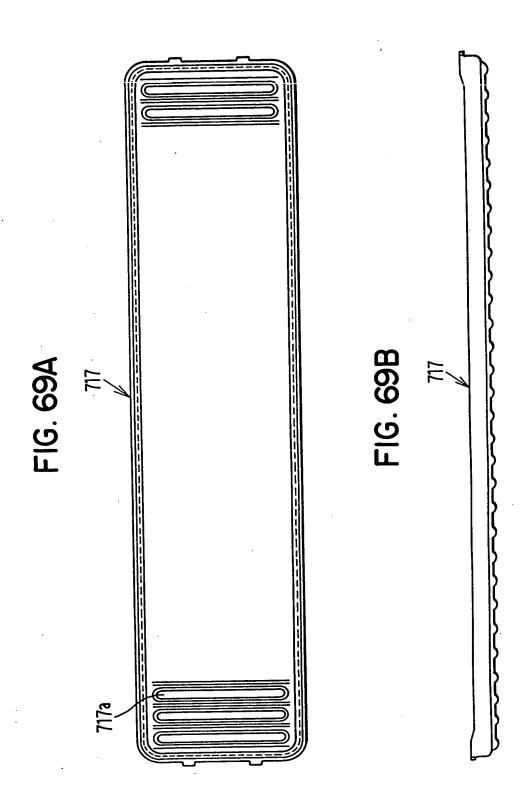


FIG. 68C

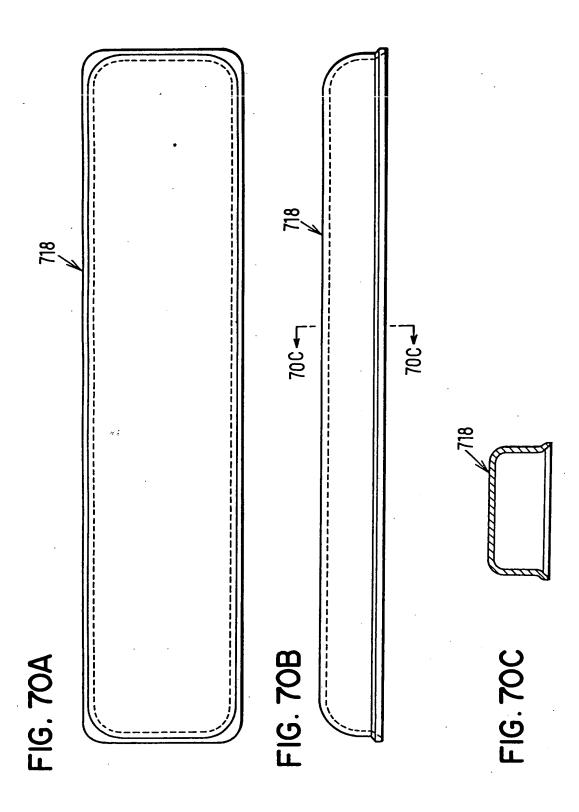


Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe

hael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA



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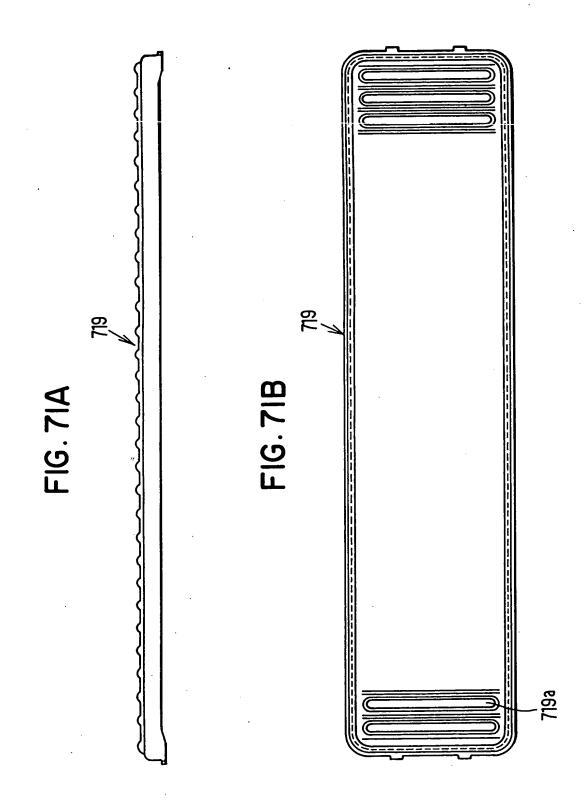


Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe

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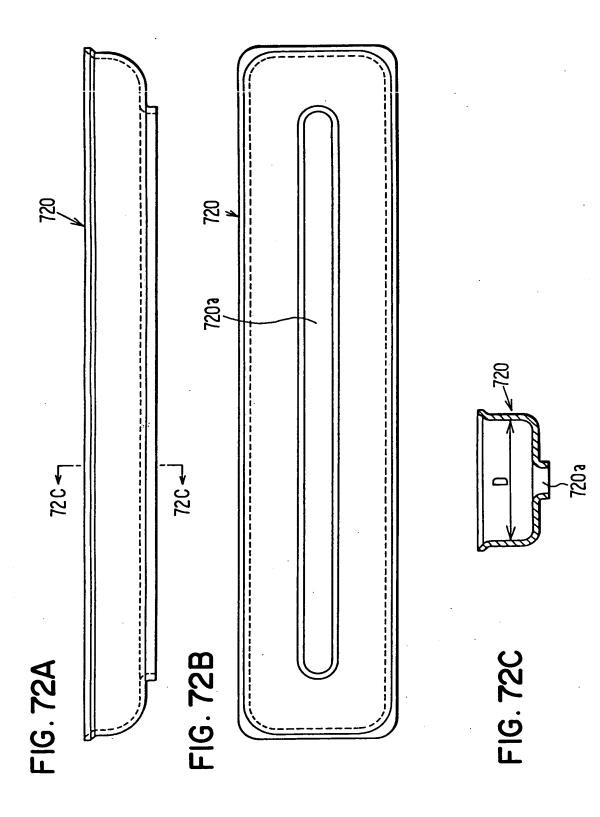
- - - -

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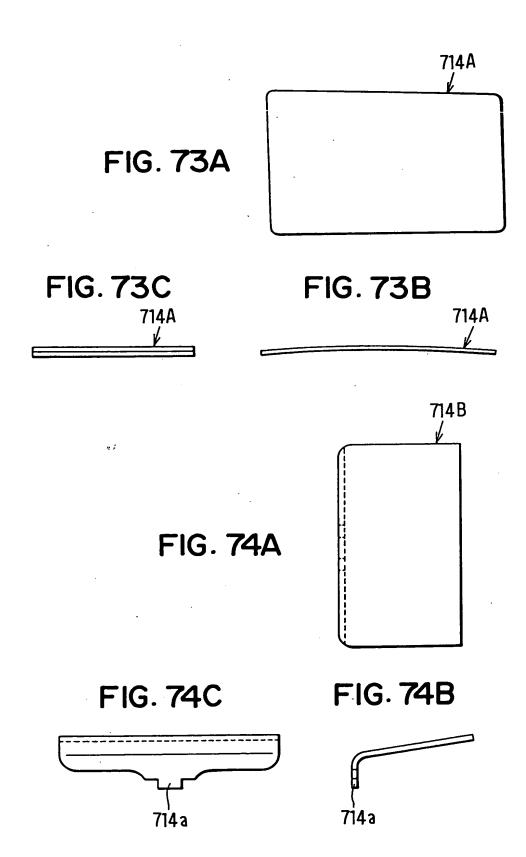
Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce

Atty. Ref. No.: 4041J0229DVA



Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce

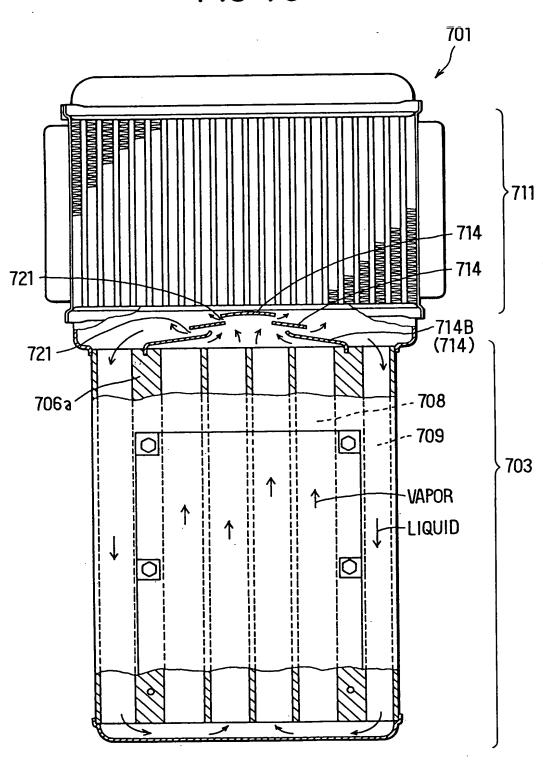
Atty. Ref. No.: 4041J0229DVA



Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce

Atty. Ref. No.: 4041J0229DVA

FIG. 75

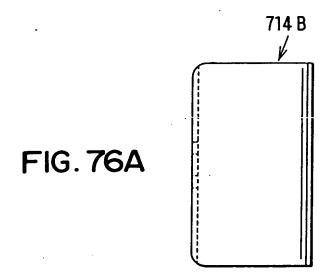


Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe

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Atty. Ref. No.: 4041J0229DVA

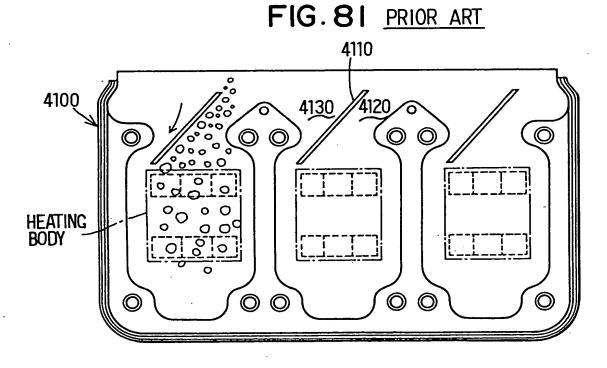
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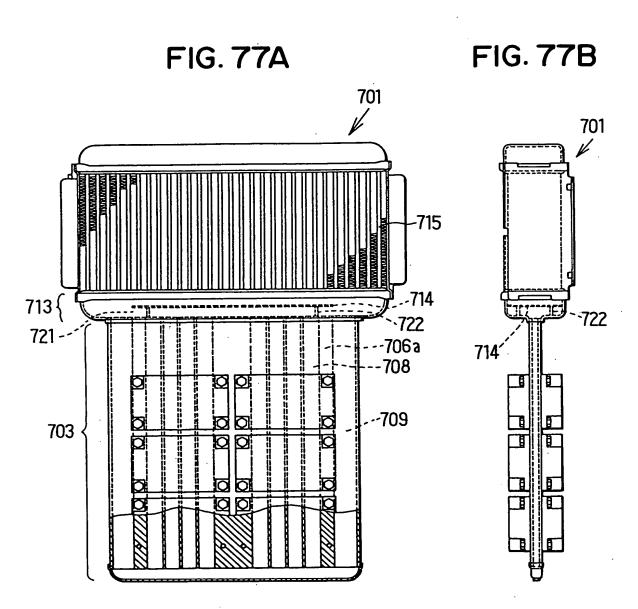
714a

FIG. 76C FIG. 76B 714b

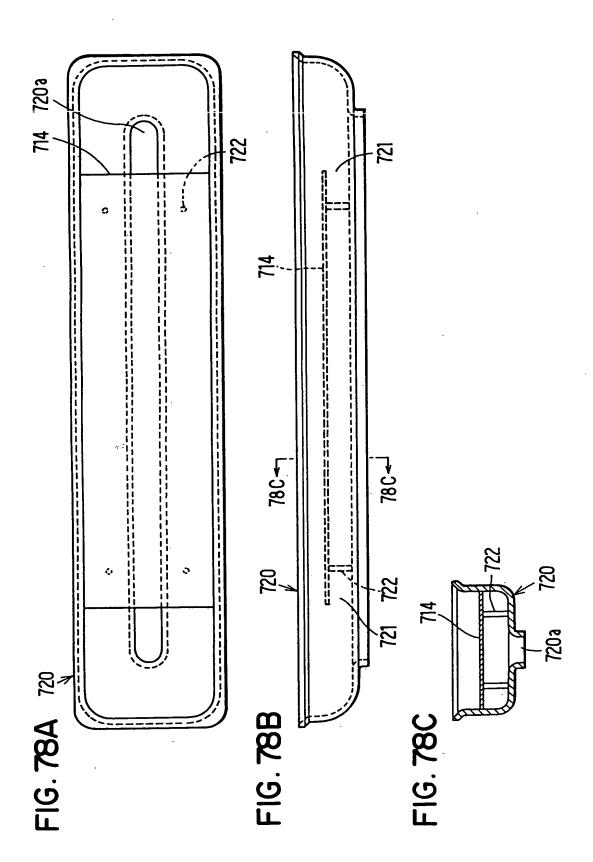
714a



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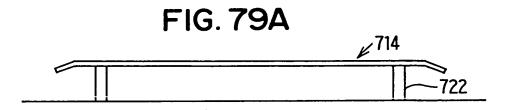


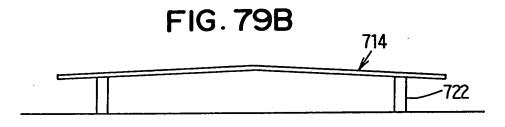
Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA

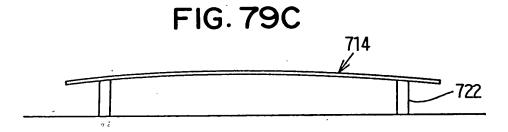


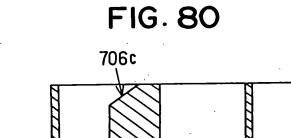
Inventor: Hiroyuki Osakabe

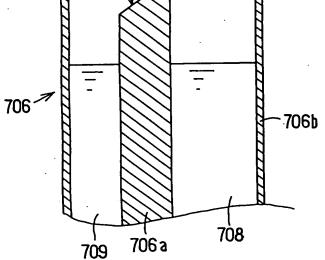
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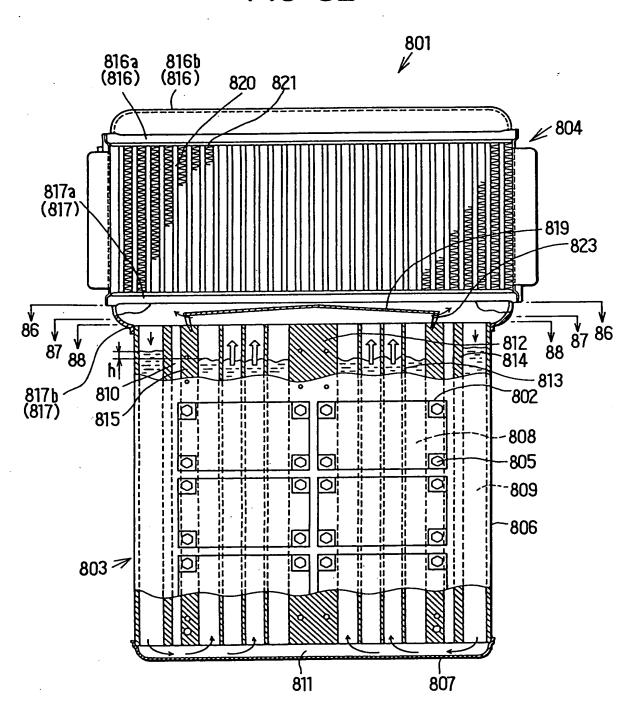




Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe

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FIG. 82



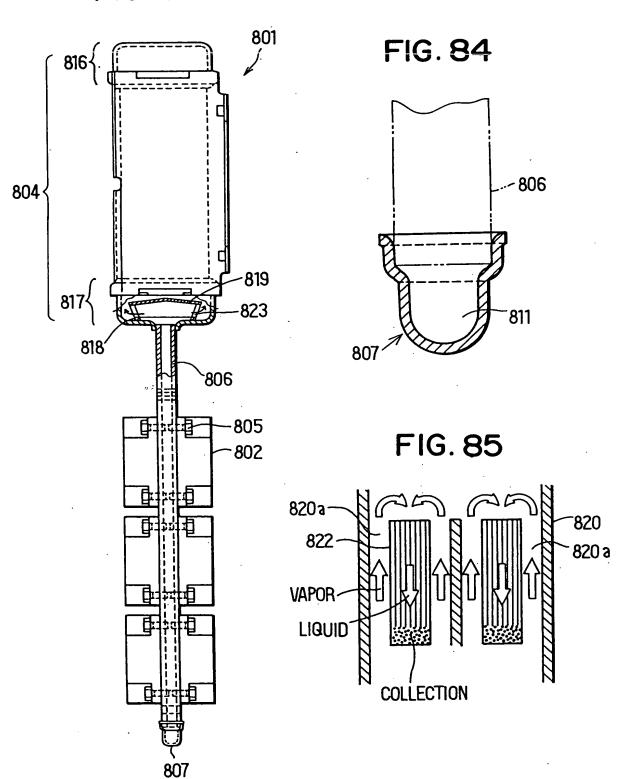
Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe

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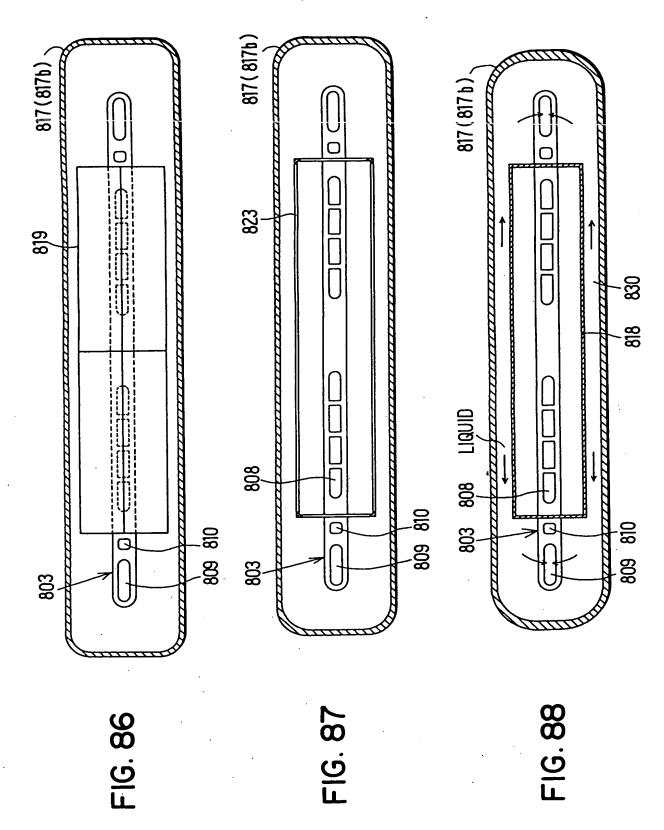
FIG. 83



Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce

Atty. Ref. No.: 4041J0229DVA

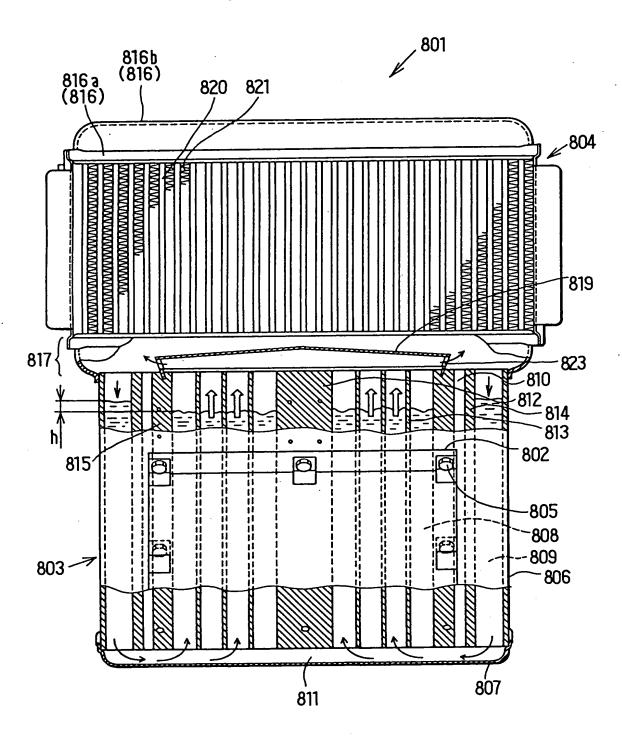
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Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce

Atty. Ref. No.: 4041J0229DVA

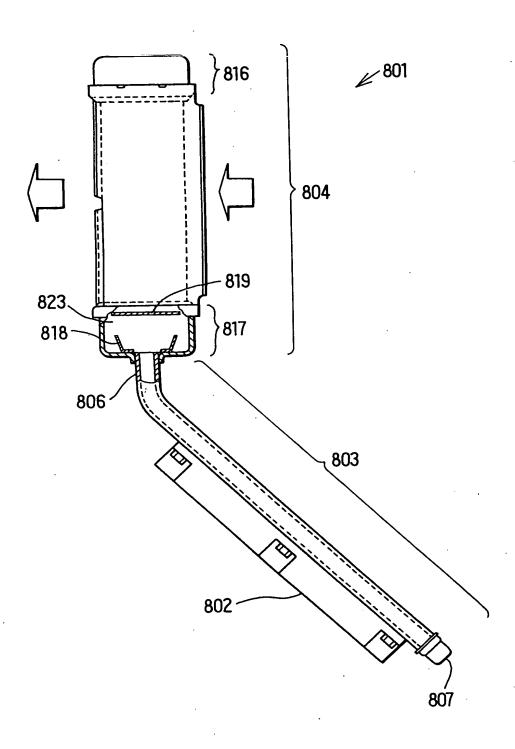
FIG. 89



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
hael J. Schmidt, Harness, Dickey & Pierce

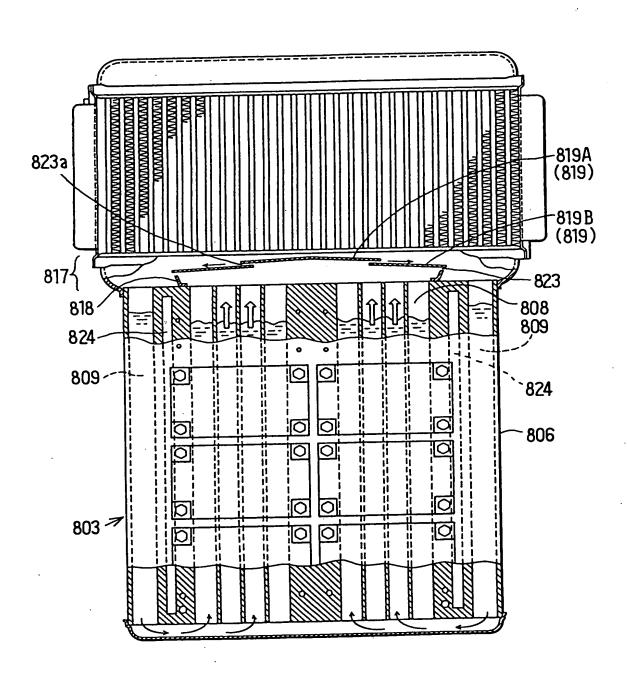
Atty. Ref. No.: 4041J0229DVA

FIG. 90



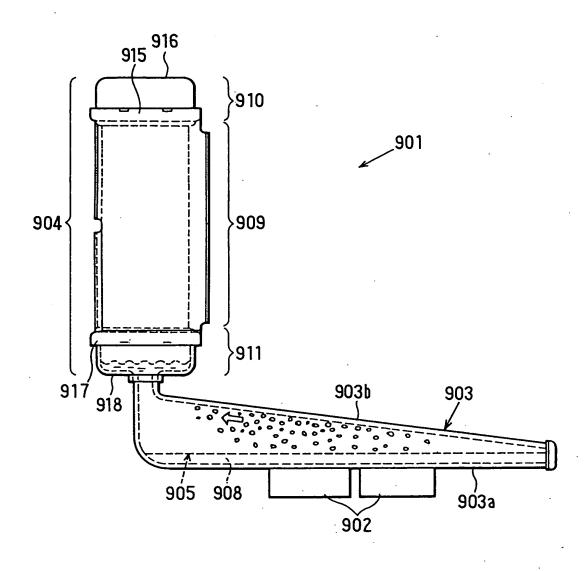
Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierc Atty. Ref. No.: 4041J0229DVA

FIG. 91



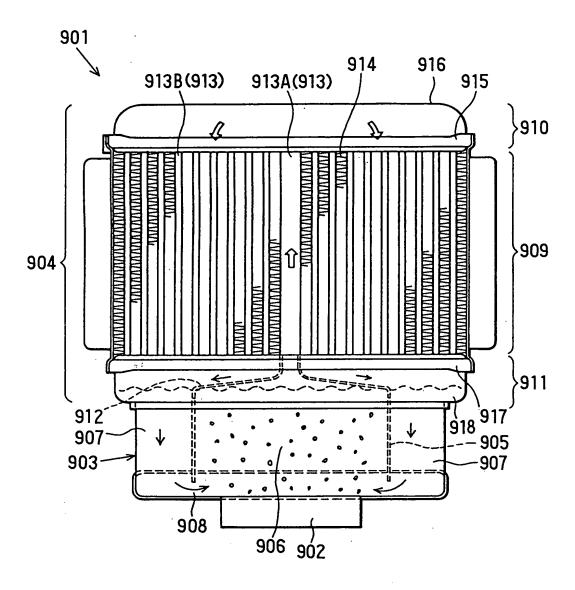
Inventor: Hiroyuki Osakabe hael J. Schmidt, Harness, Dickey & Pierce Atty. Ref. No.: 4041J0229DVA

FIG.92



Inventor: Hiroyuki Osakabe chael J. Schmidt, Harness, Dickey & Piero Atty. Ref. No.: 4041J0229DVA

FIG.93



Inventor: Hiroyuki Osakabe chael J. Schmidt, Harness, Dickey & Pierc

Atty. Ref. No.: 4041J0229DVA



FIG. 94B

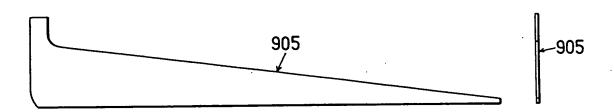
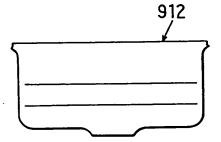
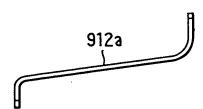


FIG.95A

FIG.95B





Inventor: Hiroyuki Osakabe chael J. Schmidt, Harness, Dickey & Pierd

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FIG.96

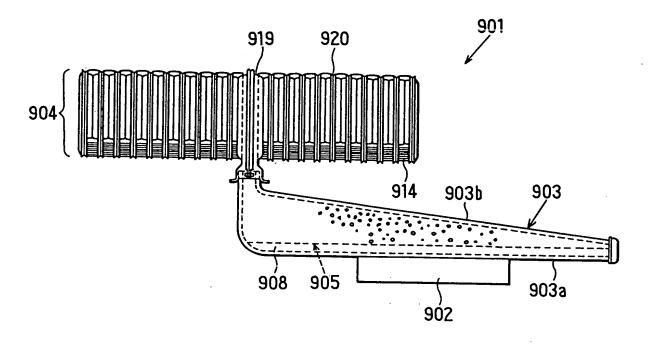
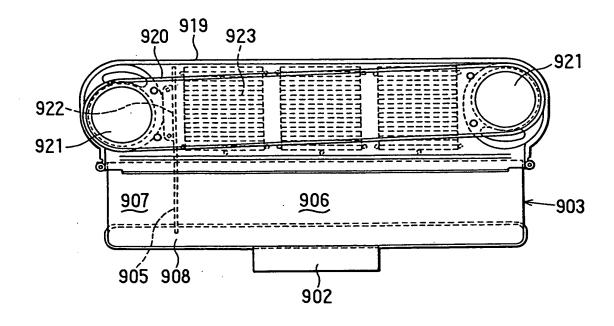
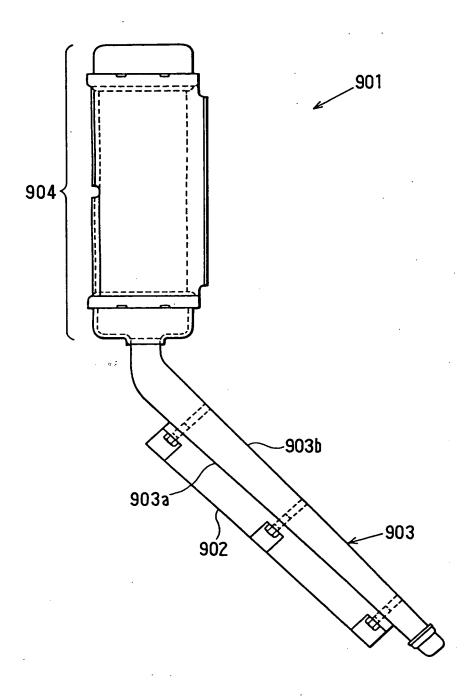


FIG.97



Inventor: Hiroyuki Osakabe chael J. Schmidt, Harness, Dickey & Piero Atty. Ref. No.: 4041J0229DVA

FIG. 98



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe

chael J. Schmidt, Harness, Dickey & Pierd

Atty. Ref. No.: 4041J0229DVA

FIG.99

